Stand–alone type

User's Manual

4/8/16 CH Professional DVR

DVR

WARNING
TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION!
RISK OF ELECTRIC SHOCK. PLEASE DO NOT REMOVE COVER WHEN POWER CONNECTED. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

NOTE: This equipment has been tested and found to comply with the limits for a Class "A" digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

FCC Caution: To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This Class A digital apparatus meets all the requirements of the FCC Regulations.

LIMITATION OF LIABILITY

- This users' manual is supplied 'as is', with no warranties, be it expressed or implied, including, but not limited to, the implied warranties of merchantability, suitability for any exact purpose, or non-infringement of any third party's rights.
- This publication may include technical inaccuracies or typos. The manufacturer holds the right to introduce any changes to the information contained herein, for any purpose, including but not limited to, improvements of the publications and/or related to the product, at any time, without prior notice.

DISCLAIMER OF WARRANTY

The supplier shall not be liable to any party or any person, except for replacement or reasonable maintenance of this product, for the cases, included but not limited to the following:

- Any damage or loss, including but not limited to: direct/indirect, consequential, special, exemplary use arising out of or related to the product;
- Inappropriate use or negligence of the user in operation of the product, resulting in personal injury or any damage;
- Unauthorized disassembly, repair or modification of the product by the user;
- Any problems or consequential inconvenience, loss or damage, caused by connecting this product to devices of the third parties;
- Any claim or action for damages, brought by any photogenic subject, be it a person or organization, due to violation of privacy whereby the surveillance picture and/or saved data becomes public or is used for the purpose other than surveillance.

SAFETY INSTRUCTIONS

- Read these instructions and keep them in a safe place for future reference.
- Please refer all work related to the installation of this product to qualified service personnel or system installers.
- Do not operate the appliance beyond its specified temperature, humidity or power source ratings.
- Place the unit on a flat surface not prone to vibration or impact.
- Use the appliance at temperatures between $0^{o}C \sim +45^{o}C$ ($32^{o}F \sim 113^{o}F$) and humidity below 85%.

- Install the unit away from heat sources such as radiators, heat registers and stoves. Installation of the unit near consumer electronics devices, such as stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the above mentioned temperature range.

- **Handle hard disk drives with care.**

  It is possible to damage hard drives if they are moved while their motors are still running. To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting power before moving the unit.

  To avoid shock and vibration damage to the internal hard drive, do not move the unit while it is plugged in.

  Protect hard disk drives from static electricity.

  Do not stack hard disk drives or keep them upright.

  Do not use an electric or magnetic screwdriver to fix hard disk drives.

- Do not place the unit in an enclosed area where the cooling vents are blocked or impede the flow of air through the ventilation openings.

- Protect the power cord from being stepped on or pinched particularly at plugs and the points where they exit from the apparatus.

- Do not drop metallic parts through slots. This could permanently damage the appliance. Turn the power off immediately and contact qualified service personnel for service.

- Handle the appliance with care. Do not drop or shake, as this may damage the device.

- Do not expose the appliance to water or moisture, nor try to operate it in wet areas. Do not install the unit in an area where condensation occurs. Do not operate with wet hands. Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and also cause electric shock.

- Do not use strong or abrasive detergents when cleaning the appliance body. When the dirt is hard to remove, use a mild detergent and wipe gently.

- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.

- Please make a note of your settings and save them. This will help when you are required to change the system configuration, or when an unexpected failure or trouble occurs.

- Distributing, copying, disassembling, reverse compiling, reverse engineering, and also exporting in violation of export laws of the software provided with this product, is expressly prohibited.

CARING FOR THE ENVIRONMENT BY RECYCLING

When you see this symbol on a product, do not dispose of the product with residential or commercial waste.

Recycling your Electrical Equipment

Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region

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1. YOUR DVR AT A GLANCE

Product Overview

Model	4CH	8 CH	16 CH
Video Format	PAL/NTSC		
Video Compression	H.264 Baseline Compression		
Video Input / Output	BNC 4Iuput/CVBS output/ /VCA output	BNC 8 Input / CVBS Output/Spot Out/Video Loop/VGA Output/ HDMI	BNC 16 Input / CVBS Output/Spot Out/Video Loop/VGA Output/HDMI
Audio Format	G.711a		
Audio Input / Output *	RCA 4 Input/1Output	BNC 8 Input /1 Line in/Microphone/ 1 Output	BNC 16 Input /1 Line in/Microphone/ 1 Output
Alarm Type*	Motion detection, Sensor Input, Relay Output , Video Loss，Camera masking, No Disk space, Disk error, Not enough space, Network failure, IP Conflict		
Sensor In / Out*	4CH Input/1CH Output	16CH Input / 4 CH Output	
Display Frame Rate	Each Channel PAL:25 FPS, NTSC:30 FPS		
Playback Resolution	CIF/Half-D1/D1 @ Recorded frame rate		
Record Frame Rate	PAL: 100FPS@CIF, 100FPS@HD1, 100@D1 NTSC:120FPS@CIF,120FPS@HD1,120@D1.	PAL: 200 FPS@CIF, 200 FPS@HD1, 200 FPS@D1 NTSC: 240FPS@CIF,240 FPS@HD1,240 FPS@D1.	PAL: 400 FPS@CIF, 400 FPS@HD1, 400 FPS@D1 NTSC: 480FPS@CIF,480 FPS@HD1,480 FPS@D1.
Record method	Scheduled Record (Normal Record, Motion Detection, Alarm Trigger), Manual Record		
HDD Interface	Up to 2TB, SATA interface HDD*1	Up to 2TB for each one, SATA interface HDD*8 or HDD*4+DVD+RW	
Network Protocol	TCP-IP/ DHCP/DDNS/PPPOE/E-Mail/NTP/FTP/ RTSP/ IP Filter/ UPNP		
Network Function	Live Monitor, Playback, Configuration, Backup, Mobile Phone Surveillance		
USB2.0 Interface	Mouse / Portable Mobile HDD/ Flash Drive/ USB DVD Burner		
Playback method	Normal, Fast Forward, Slow Forward, Rewind, Single Step		
Network Interface	RJ45 100M/ 1000M Ethernet Auto Detect		
PTZ Protocol*	PELCO-P , PELCO-D,PANASONIC, SONY, etc		
Area Covered	Support area covered for each channel		
Video Backup	Backup files in DAV or AVI format for USB disk and in DAV format for USB DVD burner.		
Power Adapter	DC 12V 3A	AC 220V	
Operating temperature	10℃~+40℃		
Operating humidity	10%~90%		
Dimensions* **(L*W*H)**	315x232x57mm	430*443*96mm	

***Model dependent**

Congratulations on purchasing your state-of-the-art Digital Video Recorder (DVR) offering the industry's best triplex functionality with video/audio recording, playback, and network capability. Your new device allows you to run all three functions simultaneously, streamlining the use of your CCTV system and boosting the security level of your home, business or social venue. You can access live or recorded feed from your standard or PTZ cameras immediately at the location of the DVR installation, or anywhere in the world using web-browsers or a mobile phone*. The video may be stored at a remote location for safety.

(*Some limitations apply to web- and phone-based features, please see the related sections for detailed description.)

Please get acquainted with the parts and accessories as well as the ways to use the appliance as described in this instruction manual. If you have any questions that this guide cannot answer, please contact your vendor or a certified specialist.

2. Contents of the Box

- DVR device
- Installation CD
- Remote control
- Power cord
- Mouse (optional, depends on the model)
- Hard disk drive (optional, depends on the model)

2.1 Getting Started Check-List

Before starting to work with your new DVR, please make sure all relevant connections are done correctly.

a) Are the power and video in/out cables plugged in? Please see Section 3.5.1 Basic Connections for more.
b) Is the HDD installed? Please see Sections 3.5.2 Installing Hard Disk Drive for more.
c) Did the DVR start recording? Please see Section 4.2.4 Record Control for more.

3. Hardware

3.1 Front Panel (Please take actual machine model as quasi)

Front panels are different in term of different machine model. The front panels as follows are for reference.

4CH

No.	Name	Icon	Function
1	Quad		Press this button switch display modes
	Channel switch	CH1,CH2, CH3,CH4	Using these buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually
2	Menu	Menu	Access tool bar
3	ESC	ESC	Close upper interface or controls.
4	REC	REC	Manually stop/start recording
5	DEL	DEL	Assistant function, such as: delete the character which input in the textbox.
6	Play/Pause		Playback or paused mode, click this button to realize normal playback

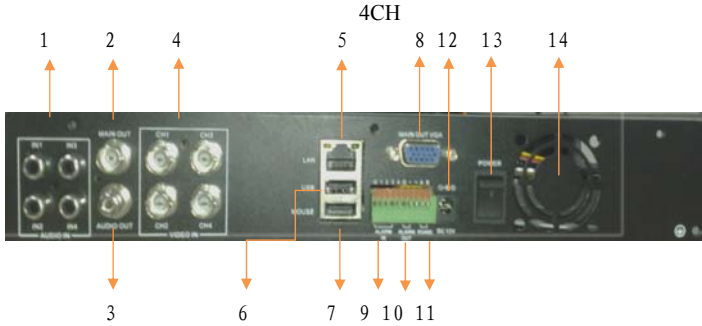
7	PTZ	PTZ	PTZ control, enter the PTZ control mode
8	Up/down		Activate current control, modify setup, increase/decrease numeral, assistant function such as PTZ menu
			Switch tab in main menu.
	Left/right		Shift current activated control. When playback, click these buttons to con playback bar.
	Enter	Enter	Confirm current operation
			System menu in review window
9	LED	power	LED lights indicate your connection to the power supply
		HDD	LED lights indicate recording status.
10	IR Remote Control		**Receive remote control signal**

8/16CH

S/N	Name	Icon	Function
1	**Power**		Power button, press for 3 seconds to shut down DVR.
2	**Remote control**	**IR**	Receive remote control signal
3	**USB**	**USB**	Use these USB ports to connect the mouse and backup devices (flash drive, DVD recorder).
4	**indicator Light**	**1-16**	1-16 channel indicator Light
5	**Numeral**	**1-9**	Numeral | Letter | Character
	SHIFT		Switch between function and numeral
	10+		Switch above 10+ channels
6	**Assistant**	**Fn**	Assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.
	Up/down		Activate current control, modify setup, increase/decrease numeral, assistant function such as PTZ menu
			Switch tab in main menu.
	Left/right		Shift current activated control. When playback, click these buttons t control playback bar.
			Switch cursor in sub menu.
			PTZ control
	Enter		Confirm current operation
			System menu in review window
	ESC	**ESC**	Close upper interface or controls.
	Rec	**Record**	Manually stop/start recording
7	**LED**	**ACT**	LED Indicators
		STATUS	When push any key, status indicator light will be on
		NETWORK	Network indicator light

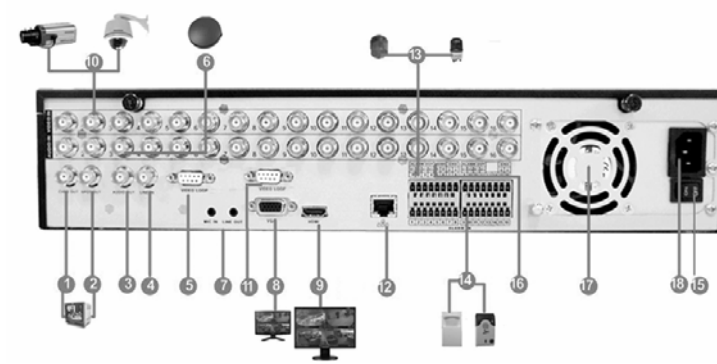
8	**Play/Pause**	▶|	Playback or paused mode, click this button to realize normal playback
			Iris+ Adjust iris
	Reverse/Pause	|◀	In normal playback or pause mode, click this button to reverse. In reverse playback, click this button to pause.
			Iris- Adjust iris
	Fast play	▶▶	Various fast speeds and normal playback.
			Zoom+
9	**Slow Play**	▶	Multiple slow play speeds or normal playback
			Zoom-
	Play Next	▶|	In playback mode, playback the next video
			Focus+
	Play Previous	|◀	In playback mode, playback the previous video
			Focus-
10	Combination key	Mult+Ente	Switch output between VGA and CVBS.
		Mult+▼	Switch resolution of VGA

3.2 Back Panel (Please take actual machine model as quasi)



No.	Icon	No.	Icon
1	4 Audio Input	8	VGA Output
2	Main out	9	Alarm In
3	Audio out	10	Alarm Out
4	4 CHs Video Input	11	RS-485 Interface
5	LAN Interface	12	Power Supply
6	USB Port	13	Power Switch
7	Mouse Interface	14	Fan--Optional

8/16CH



No.	Icon	No.	Icon
1	CVBS output	10	CVBS Input
2	SPOT output	11	Video Loop(9-16CH)
3	Audio output	12	LAN Interface
4	Line in	13	Alarm Out
5	Video loop（1-8CH）	14	Alarm In
6	Audio input	15	Power Switch
7	MIC input/output	16	RS-485 Interface
8	VGA Output	17	Fan
9	HDMI Output	18	Power supply

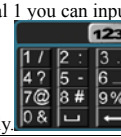
3.3 Remote Control

In device operation, the enter key on the remote control or the front panel has the same function as a mouse left click. The IR Range of the remote control is up to 10 meters. The buttons on the remote control correspond 1-1 with the buttons on the front panel.

No.	Name		Description
1	Alarm reset		Clears the alarm input or alarm output status.
2	REC		Recording control. Has the same function as the "REC" button on the device's front panel.
3	Numeric buttons		Input numbers or select to change relevant channels.
4	Functional Buttons	MENU	Enter the main menu.
			Switch from the single window view mode to multiple split view mode
		ESC	Return to upper menu, same as the ESC button on the front panel
		PTZ	Enable PTZ control, same as the "PTZ" button on the front panel
5	Playback Control		Play in slow mode / rewind **Iris-**
			Play/Pause **Iris+**
			Stop
			Change speed for play back or fast forward **Zoom+**
			Go to next frame **Focus+**
		FN	Function, access to auxiliary settings.
6	Picture Adjustment Parameters	, +, –	Buttons for zoom in or zoom out
		, +, –	Buttons for adjusting focus
7	Arrow Buttons		Similar to the functions of arrow buttons on the front panel
8	DEL		DELETE button

3.4 Mouse Control

You can use a mouse to operate the DVR as well. The mouse operates just like a mouse on a Windows PC. Please connect the mouse to the USB connector in the back panel and please note that you can hot-plug the mouse.

Left click mouse	System pops up password input dialogue box if you have not logged in. In real-time monitor mode, you can go to the main menu.
	When you have selected one menu item, left click mouse to view menu content.
	Implement the control operation.
	Modify checkbox or motion detection status.
	Click combo box to pop up drop down list.
	In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized). Here ← stands for backspace button. __ stands for space button. In English input mode: _stands for input a backspace icon and ← stands for deleting the previous character. In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral. When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/" , or you can click the numeral in the  on-screen keyboard directly.
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.
Right click mouse	In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu. Among which, Pan/Tilt/Zoom and color setting applies for current selected channel. If you are in multiple-window mode, system automatically switches to the corresponding channel.
	Exit current menu without saving the modification.
Press middle button	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.
	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

3.5 Hardware Installation

It is recommended that the installations described below are carried out by qualified personnel.

3.5.1 Basic Connections

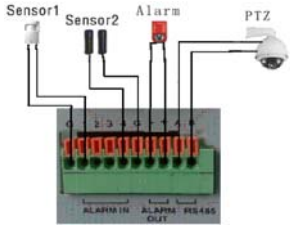
- **Cameras**
  Connect each of the cameras' outputs to the video input socket in the rear panel of the DVR using appropriate cables. The video input interface is a standard BNC connector, 1Vp-p, 75 Ω. Please keep the video signal cable away from strong electromagnetic and electric interference.

- **Audio Connection**
  The audio input interface is a standard BNC socket.
  Please keep the audio signal cable away from strong electromagnetic and electric interference.

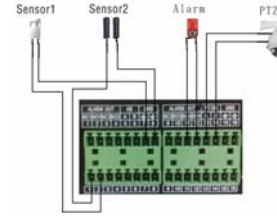
- **Monitor**
  Connect the main output connector to a monitor or a TV screen. Use a BNC-to-RCA converter, if needed, to work with the Audio/Video RCA cable.

- **Power**
  Please use the 220V AC supplied for connecting your DVR device with the power source.

- **Alarm Input / Output----(optional)**
  Connect Alarm In 1-16 to N. O. (Normally Open) or N.C. (Normally Closed) alarm connectors and one Ground connection. Connect Alarm Out to the corresponding connections and Ground accordingly.
  For detailed description please see Section 5.3.4 Alarm Input.



4CH



8/16CH

- **Ethernet**
  For remote access to the video images from your cameras via LAN or the Internet, please connect the standard RJ-45 twisted-pair Ethernet cable to the Ethernet connector.

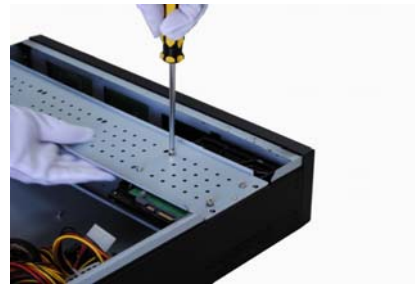
- **USB**
  For connecting the mouse, USB flash drive, USB portable HDD, USB portable DVD Recorder. The USB mouse is hot pluggable.

NOTE: The device only supports FAT32 file system on the USB devices.

3.5.2 Installing Hard Disk Drive

DVR need install HDD first, we recommend high-speed HDD 7200rpm or higher, and the SATA cable included in package, and the HDD must be formatted before recording.
We take the 16CH mode as the example:
1. Loosen the screws on the top cover
2. Open the cover
3. Put the HDD on the HDD bracket

4. Use provided HDD screws, install HDD on the bracket



5. Fix the HDD bracket on the DVR HDD bracket

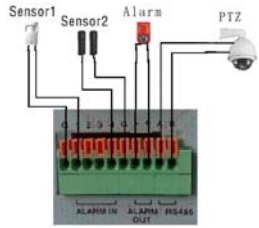
6. Use SATA cable connect to the DVR main board SATA ports,

7. And then connect power cord to the HDD

8. Close the DVR enclosure and screw firmly

3.5.3 PTZ Control Connections----(optional)

Connect the PTZ control jacks to the corresponding RS485 A and B interfaces on the rear panel.



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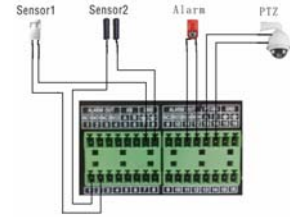


8CH/16CH

For detailed description of PTZ protocols, baud rates and IDs please refer to the setup section in the PTZ manual.

4. Getting Started and the Main Screen

4.1 The Main Screen

Switch on your DVR and wait for the system program to load. When you enter the system you can see the main screen. The standard layout is eight windows (or sixteen windows, depending on your device) evenly distributed over the screen. From the main screen you can access menu options and switch among channel views, displaying either all channel feeds simultaneously or bringing forth a full-screen view of a selected channel.

After starting up, videos will be outputted on both VGA (HDMI) and TV, but the menu will be only displayed on one side. There are two ways to switch menu between VGA and TV: 1) Main Menu>>Setting>>General>>Display Mode >> HDMI/VGA/TV; 2) Press button “MULTI”, then “ENTER” on front panel to switch output.

Note：After installing a HDD at first time, you should format it: Main Menu >> Advanced >> HDD Manage>>Format

4.1.1 Displaying a Single Channel

In the multiple screen view, you can make a particular window active by left-clicking on it once with a mouse. If an audio output device is connected to this channel, you can monitor both audio and video feeds.

To enter a single channel view you can press the corresponding numerical buttons on the remote (channel number is displayed in the bottom left corner of each window); alternatively you can do so by left double-clicking on the desired window, or by choosing “View 1” on the shortcut menu.
In order to return to the multi-screen view you could either double-click on the screen again or press the “Multi” button either on the remote control or the front panel.

You can choose to display the shortcut menu by single right-clicking on the screen.

4.1.2 Login System

In live view, press the button “MENU” once or click “Main Menu” on shortcut menu to display the main menu it will appear the login window.

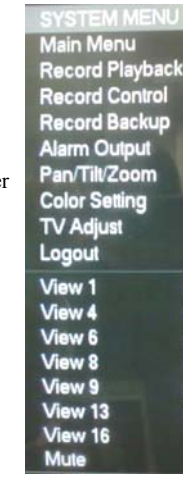
You can login from the LOGIN window as shown as previous fig. Select user name and fill in user

password (You can select username by pressing control button【▲】【▼】, move cursor to password edit bar by pressing control button▶ and switch input method by pressing "REC" button.). You can access the main menu by pressing [OK] if the password is enabled.

The default password for Admin is "888888". For your convenience and system safety, you can change password of admin and add other users.

4.1.3 Shortcut menu

Right click on your mouse to display shortcut menu as figure on right hand.

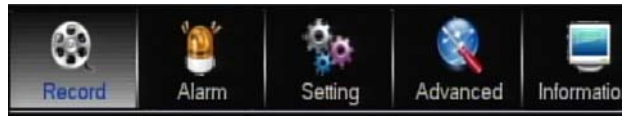


【Main Menu】:Enter system configuration menu;
【Record Playback】:Search recording files and playback it;
【Record Control】:Set recording modes;
【Record Backup】:Backup recording files;
【Alarm Output】:Clear alarm or set alarm type;
【Pan Tilt Zoom】:Control PTZ (Pan Tilt Zoom), set preset, pattern, border and tour;
【Color Setting】:Set color for each channel;
【TV Adjust】:Screen layout adjustment;
【Logout】:Logout menu user;
【View 1】:View one channel in full screen mode;
【View 4】:View four channels in full screen mode;
【View 6】: View six channels in full screen mode;
【View 9】: View nine channels in full screen mode;
【View 13】: View thirteen channels in full screen mode.
【View 16】: View sixteen channels in full screen mode.
【Mute】: Turn on or turn off the sound.
See the following subsections for a detailed description of each of these functionalities.

4.2 Shortcut Menu Options

4.2.1 Main Menu

Pressing this button will bring up a screen for setting up all system configurations. You can adjust such settings as **Record**, **Alarm**, **Setting**, **Advanced** and **Information**. Please refer to **Section 5. DVR Settings** for the detailed description of these settings.

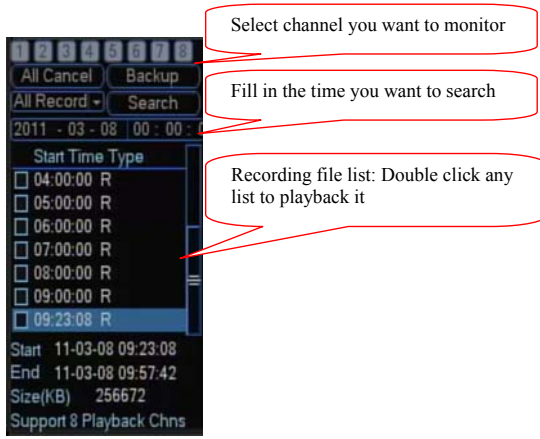


4.2.2 Record Playback

To play the recorded video, press the **Record playback** button on the shortcut menu to enter video playback interface.

You should select channels you want to search and click button Search and there will be notes list on the right panel. You can double click any recording list to playback it.

In order to playback a certain video feed from a particular camera, you first need to indicate what time and which camera you wish to receive this information from. Then click Search to search for files.



After searching, there will be a list of recording files, double click any list to playback it.

Playback Control

In the playback mode you can see the playback control panel as well as the date and time of the played file.

In the playback view, you can drag an area with your mouse then click this area to zoom out this area.

Options for the playback control panel are described below:

: Play/Pause
: Rewind/Pause
: Stop
: Slow forward.
: Fast forward.
: Pre-frame (This button will be able when the file is paused).
: Next frame (This button will be able when the file is paused).
: Pre-file. Click this button to playback pre-file.
: Next file. Click this button to playback next file.
: Repeat playback.
: Display single-channel in full screen mode.

You can right click on your mouse to exit playback file and click again to exit playback interface.

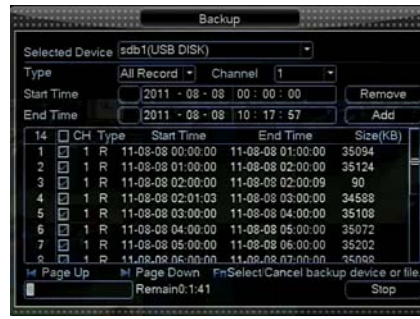
4.2.3 Video Backup

There are two ways to backup recording files:
Method 1: Backup recording files according to time segment.

1. Insert your USB disk or USB DVD burner into USB port
2. Look over your device: Main Menu>>Record>>Record Backup. In this interface, user can get its free space and total space (If you can not see USB disk in the list, you can click button “Detect” to detect device).

Record Backup
1 Name(Type) Free Space/Total Space Status
1 sdf1(USB DISK) 1.86 GB/1.86 GB Ready
Page Up Page Down Fn Select/Cancel backup device or file.
Detect Erase Backup Burning Stop

3. Click “Backup” to enter into backup interface; Click “Erase” to delete data in your USB disk



4. In backup interface, user can select device, select recording type, channel and time period which you want to backup, then click “Add” to add files.
5. Click “Start” to start backup files

Method 2: Backup recording files according to detail files

To back up the recorded footage, you first need to indicate which cameras and time interval you want to save to an external source.

After searching recording files, you can choose files with checkmark in front of file on right panel and click Backup to enter backup interface.

After that click the **START** button, it will begin backup this file. It will bring up the "Backup" dialog window. If the system cannot recognize the connected devices or none are connected, you will see a warning message "*You have not selected a device!*"

The system will automatically detect all available backup devices and display them in the Backup Device field (positioning the mouse over this field or entering it with the help of the arrow buttons will allow you to view the available choices.).

Currently you can connect such external media as USB flash drives, portable USB HDDs and USB DVD recorders.

The system only supports the FAT32 file system for USB flash drives and HDDs

Playing backed up video on your PC

The backup file will be in DAV format and it can be played by special player (This player will be provided in CD disk).

4.2.4 Record Control

Press the button **Record Control** on shortcut menu will bring up a following dialog for record control. You can set record mode for each channel: schedule recording, manual recording or stop recording. In schedule record mode, videos will be record according to your setting in section 5.2.1 SCHEDULE.

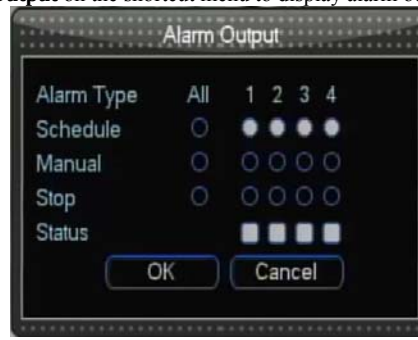
Recording status is displayed in the bottom left corner of the respective screen.

For detailed description of scheduled see **Section 5.2 Record Settings**. Description of the manual recording function follows.

In order to record a video/audio feed, please select the REC button in the Tool Menu to enter record control interface and select "Manual" to start manual recording. Alternatively you can use the REC button on the remote or the front panel. If you choose "Stop" it will stop recording. Press OK to confirm, or press Cancel to undo your choice.

4.2.5 Alarm Output

Press the button **Alarm Output** on the shortcut menu to display alarm output interface.



【**Alarm Type**】There are two types for you to select: schedule and manual.

【**Schedule**】Set alarm output when alarm is triggered. Select all for all the channels, "1"● for the first channel, "2"● for the second channel, "3"● for the third channel, "4"● for the fourth channel.

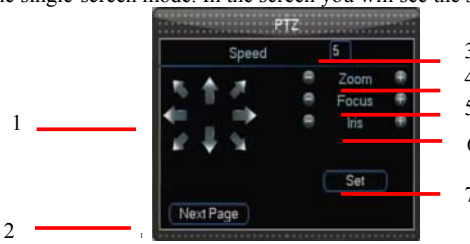
【**Manual**】: Set alarm output all the time. You can set every channel respectively.

【**Stop**】Close alarm output.

【**Status**】 Current device alarm output status.

4.2.6 PTZ Control

You can use this function if your DVR is connected to a PTZ camera (Pan-Tilt-Zoom). Pressing the button **Pan Tilt Zoom** on the shortcut menu will bring the corresponding video feed into the single-screen mode. In the screen you will see the special PTZ menu.



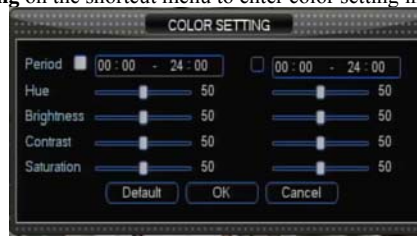
1. **Directional buttons:** Control the direction of the PTZ cruise. Please refer to your PTZ manual for details of PTZ scanning mode.
2. Next Page: Press this button to enter advanced function and it will be introduced in following.
3. Speed: Sets the turning speed of PTZ camera. Adjust numbers for adjusting this setting.

4. **Zoom:** Click to zoom in / zoom out
5. **Focus:** Click to focus-in and focus-out (this function is disabled for cameras with automatic focus).
6. **Iris:** Click to make the image brighter or darker (this function is disabled for cameras with automatic iris adjustment).
7. **SET**: Click this button to enter setting interface and you can set preset, tour, pattern and border. If you click "Next Page", you will enter interface as following:

1. **NO.**: Input number to use
2. **Pattern**: Start up pattern
3. **Auto Scan**: Start up auto scan
4. **Flip**: Turn over image
5. **Preset**: Call on preset point
6. **Tour**: Start up tour
7. **Auto pan**: Circumrotate PTZ flatly
8. **Reset**: Reset parameter of PTZ
9. **Auxiliary Operation:** Click "ON" to open and "OFF" to close. Different functions respond to different protocols. The auxiliaries include light, wiper, power, etc. Please refer to your PTZ manual for details.
10. **Auxiliary Number:** It should be used with Auxiliary Operation

4.2.7 Color Setting

Press button **Color Setting** on the shortcut menu to enter color setting interface.



User can set two periods to set hue, brightness, contrast and saturation for each channel respectively.

4.2.8 TV Adjustment

By pressing the button **TV Adjust** on the shortcut menu, you will bring up the **TV Adjust** screen.

You can move the entire video screen up, down, left and right using this option.

4.2.9 Logout

.Press button Logout on the shortcut menu to logout menu user.

4.2.10 Screen View Modes

View1, **View4**, **View6**, **View8**, **View9**, **View16**

Allow you to switch between single/multiple screen views (1-screen, 4-screen, 6-screen, 8-screen, 9-screen modes or 16-screen modes).

OK	confirm the adjusted position
Cancel	cancel the introduced position changes

4.3 Channel Status Display

The top right corner of each channel image features the following status icons:

Icon indicates that the channel has detected motion in the motion detection mode.

Icon indicates that the channel is recording at the time.

5. DVR Settings

5.1 Main Menu

Main Menu	Sub Menu	Function
Record	Schedule	Time setting for common record, motion detection, external alarm. Time operated setting per day per week (Period time for record, receive external alarm signal, motion detection)
	Search	Record enquiry and playback, sorted by video type (All, alarm, motion detection, all alarm), channels, time, the result will be displayed in file list, choose the file to play R- Regular recording file A – Alarming recoding file M – Motion detection file H – Manual
	Backup	Record backup operation and setting

Alarm	Motion Detection	Include channel, enable/off, sensitive, detection zone, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Camera Masking	Include channel, enable/off, sensitive, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Video Lost	Include channel, enable/off, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Alarm Input	Include channel, enable/off, alarm input type, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Alarm Output	Alarm Mode, setting, on/off and status
	Abnormity	Abnormity setting, on/off and linkage action (Alarm output,
Setting	General	Setting system time, time format, language, recording in HDD, series number, video system, video output format, stand-by time, etc.
	Encode	Setting audio & video encode mode, frame rate, quality, etc.
	Network	Setting network address, video transmission protocols, DHCP, etc.
	Display	Setting channel name, front output, coding output, masking, etc.
	Account	User group and account
	PTZ	PTZ control protocols and bit rate
	RS232	Setting series port and bit rate

	Tour	Setting preview, tour time, etc.
Advanced Setting	HDD Management	HDD management, delete data and etc. Note: System will restart after setting HDD
	USB Upgrade	Upgrade system through USB disk
	Configuration	Export parameters to USB disk or import parameters from USB disk
	Maintenance	Set time to auto-reboot system and select modes to auto-delete old files
	Default	Reset some parameters to factory default
	Shut Down	Logout system, shut down machine, restart system or switch users
Information	HDD Information	SATA interface status, capacity for each HDD and total, remaining capacity, video start/stop time, etc. Type: read-write disk, read-only disk, redundancy disk etc.
	BPS	Each channel's bit rate and occupied HDD capacity per hour.
	Log	Display important event log and designate needed log.
	Version	Display system hardware, software version and release date, etc.

5.1.1 Menu Options

In order to modify/adjust system configuration, you need to enter the System Menu by pressing the **Main Menu** button on the shortcut Menu.

You will see the dialog window with settings for all systems and options available in your DVR. The settings are subdivided into 5 subsections, each with its own tab: **Record, Alarm, Setting** and **Information**. Below is the detailed description of these settings.

In system configuration, you can use button ▲ and ▼ to switch tab, use button ◀ and ▶ to select sub-menu. Right -clicking on your mouse to exit current menu.

5.2 Record Settings

User can set recording schedule, search recording files and back up files.

5.2.1 Schedule

When the system boots up, it is in default 24-hour regular mode. You can set record type and time in schedule interface: Main Menu>> Record>> Schedule.

Schedule
Channel 1 Redundancy
Pack Duration 60 min Pre-record 5 sec
Record Control Schedule Manual Stop
Week Day Tue CMN MD Alarm
Schedule 1 00 : 00 - 24 : 00
Schedule 2 00 : 00 - 24 : 00
Schedule 3 00 : 00 - 24 : 00
Schedule 4 00 : 00 - 24 : 00
Schedule 5 00 : 00 - 24 : 00
Schedule 6 00 : 00 - 24 : 00
Copy
Paste
Default
Save
Cancel

【**Channel**】 Please select the channel number first. You can select "all" if you want to set for the

whole channels.

【**Redundancy**】System supports redundancy backup function. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main Menu >>Advanced>>HDD Management)

【**Pack Duration**】Set pack duration for video file

【**Pre-record**】 record the video previously than motion detection

【**Record control**】 single option, "●" means selected, there are "schedule", "manual", "stop" 3 options.

【**Week day**】 There are eight options: ranges from Saturday to Sunday and all.

【**Time period**】means current channel is recording in this period. Recording modes include: common recording, motion triggered recording and alarm triggered recording, it can be single or multiple choices. 6 time periods to set.

Also allows you to copy one channel setup to another. After setting in channel 1, you can click **Paste** button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.

5.2.2 Search

You can search recording files in video playback interface: Main Menu >>Record>> Search. The interface is the same as record playback interface, you can refer to section 4.2.2 **Record Playback**.

5.2.3 Record Backup

You can backup recording files in video backup interface: Main Menu>> Record> >Record Backup. The interface is the same as video backup interface, you can refer to section 4.2.3 **Video backup**.

5.3 Alarm Setting

Next menu tab in the Main Menu is **Alarm**. Under this tab the administrator can define how the DVR will respond to various alarms from the motion detection, camera masking, video lost, alarm input, alarm output and abnormity. Following is the description of the possible options.

5.3.1 Motion Detection

By analyzing video, when system detects sensitive moving signal, it will start motion detection alarm.

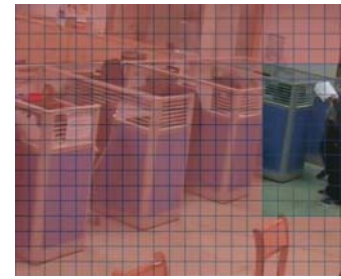
Operation method:

【**Channel**】select the channel you want to implement motion detection.

【**Enable**】function enable or disable.

【**Sensitivity**】System supports 6 levels.

【**Region**】can set 396(22*18)zones. The transparency is open zone; the pink is motion detection zone.



【**Schedule**】 Click set button, you can see an interface as shown as below. Here you can set your own setup for business day and non-business day.

【**Trigger Delay**】System auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

【**Alarm output**】 when alarm occurred, system enables peripheral alarm devices

【**Alarm duration**】Alarm output: Set output time for alarm when motion detection complete. The value ranges from 10-300 (Unit: second)

【**Buzzer**】 Default is "off"

【**Send email**】System can send out email to alert you when alarm occurs.

【**Channel**】select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface (Main Menu >>Record>>Schedule)

【**PTZ activation**】Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "OK" button to save it.

【**Tour**】 Here you can enable tour function when alarm occurs. It is a one-window tour.

【**Snapshot**】Enable or disable snapshot.

5.3.2 Camera Masking

By analyzing video, when system detects camera masking, it will start camera masking alarm.

When someone viciously masks lens, the system can alert you to guarantee video continuity. You can select Alarm output, PTZ Linkage.

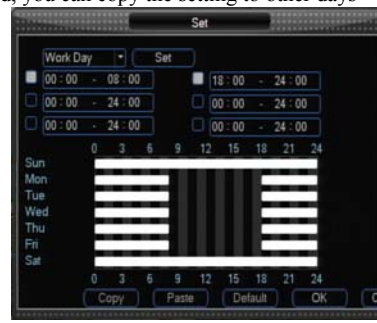
Operation method:

【**Channel**】select the channel to record when camera mask occurred.

【**Enable**】function enable switch

【**Sensitivity**】there are six levels.

【**Schedule**】Click set button, you can see an interface is shown as below. Here you can set for business day and non-business day. You can set up six time period, but they can't be repeated. The linear graphics show the period, you can copy the setting to other days



【**Alarm output**】: when camera masking occurred, system enables peripheral alarm devices

【**Alarm duration**】 when camera masking, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

【**Buzzer**】Default is "Off"

【**Send email**】System can send out email to alert you when alarm occurs.

【**Channel**】select the channel to activate recording function once alarm occurred. Please make sure you have set alarm record in encode interface (Main menu->Record->Schedule)

【**PTZ activation**】Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click “select” button,

【**Tour**】 Here you can enable tour function when alarm occurs. It is a one-window tour.

【**Snapshot**】Enable or disable snapshot.

5.3.3 Video Lost

By analyzing video, when system detects video lost, it will start video lost alarm.

Operation method:

【**Channel**】 select the channel you want to enable lens shading alarm.

【**Enable**】 function enable switch

【**Period**】 Click set button, you can see an interface is shown as in below. Here you can set for business day and non-business day. You can set up six time period, but they can’t be repeated. The linear graphics show the period, you can copy the setting to other days

【**Alarm output**】: when video lost occurred, system enables peripheral alarm devices

【**Alarm duration**】: when video lost, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

【**Buzzer**】: Default is “Off”

【**Send email**】: System can send out email to alert you when alarm occurs.

【**Channel**】: select the channel to activate recording function once alarm occurred. Please make sure you have set alarm record in encode interface (Main menu->Record->Schedule)

【**PTZ activation**】: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm.

【**Tour**】: Here you can enable tour function when alarm occurs. It is a one-window tour.

【**Snapshot**】: Enable or disable snapshot.

5.3.4 Alarm Input

Setting at Main menu>>alarm>>alarm input.

According to the introduction of 3.5.1 **Basic Connection**, please make sure you have properly connected alarm devices such as Alarm, lighter.

User can save each channel configure or save once till all channels are set.

【**Alarm input**】select alarm channel number

【**Enable**】function enable switch

【**Type**】normal open or normal close(According to your alarm device).

【**Schedule**】Here you can set for business day and non-business day. You can set up six time period, but they can't be repeated. The linear graphics show the period, you can copy the setting to other days

【**Alarm out**】activate peripheral alarm device when motion detection occurred.

【**Trigger Delay**】 Here is for you to set proper delay duration. Value ranges from 0 to 600 seconds.

【**Buzzer**】Default is "off"

【**Send email**】System can send out email to alert you when alarm occurs.

【**Record channel**】you can select proper channel to record alarm video (Multiple choices)

【**PTZ activation**】Here you can set PTZ movement when alarm occurs. Such as go to preset, tour& pattern when there is an alarm.

【**Post-record**】 It sets the record time of duration before alarm is activated.

【**Tour**】Here you can enable tour function when alarm occurs. It is a one-window tour

【**Snapshot**】System can capture the selected channel.

5.3.5 Alarm Output

You can set alarm type and get information about alarm output in alarm output interface: Main Menu> >Alarm>> Alarm Output. The interface is the same as section 4.2.5 **Alarm Output.**

5.3.6 Abnormity

You can set alarm type when abnormity events had triggered in this interface: Main Menu>> Alarm>> Abnormity.

【**Event type**】 no disk space, hard disk error, Not enough space, network failure, IP address conflict。

【**No disk space**】 DVR does not connect to the disk or hardware is error.

【**Disk error**】The system can not recognize because of disk error

【**Not enough space**】 Not enough space for the disk (the percentage of free space will be showed)

【**Network failure**】The network connection disrupted or network connection error

【**IP conflict**】 The IP address of disk recorder network is fixed, the conflict will occur once there is another same IP is set in the internet.

【**Enable**】 function enable switch, reverse means "on"

【**Alarm output**】 when exception occurred, system enables peripheral alarm devices

【**Alarm duration**】 system auto delays for a specified time. The value ranges from 10-300 (Unit: second)

【**Buzzer**】 Default is "off"

【**Send email**】System can send out email to alert you when alarm occurs.

5.4 System Settings

5.4.1 General Setting

You can set system time, date format, auto logout time, date separator, DST, time format, audio set, language, HDD full, DVR number, video standard, display mode and resolution: Main Menu>> Setting> >General.

【System Time】 Adjust the current date and time of the DVR.

【Date Format】 Toggle data format among “yyyy mm dd”, “dd mm yyyy” and “mm dd yyyy”.

【Auto Logout】Set time for auto logout;

【Date Separator】Select a symbol as data separator from “.”, “-” and “/”.

【DST】Daylight saving time. “enable” means DST is enabled. Click button “Set” to enter DST setting interface. You can setup the start time and end time for DST.

【Time Format】Toggle time format between the 12-Hour and 24-Hour representation. This option will take effect after saving and exiting.

【Audio Set】Set audio source and volume for talkback.

【Language】 Use this option to change the language of the DVR menu text and the On-Screen

【HDD Full】 Select record mode between “Overwrite” and “Stop Record” when HDD is full.

【DVR Number】Set device ID, it will be used for remote keyboard operation..

【Video Standard】 Select of the preferred video standard. Available options are NTSC and PAL.

【Display Mode】Select display position among TV, VGA and HDMI.

Note: User can press button “MULTI” and button “Enter” to switch display mode.

【Resolution】Select the preferred VGA output resolution. Depending on the model, you can make your choice among: 1024x768, 1280x720, 1280x1024, 1920 x1080.

Note: User can press button “MULTI” and button “▼” to switch display mode.

5.4.2 Encode Setting

You can set encode resolution, frame rate, bit rate type, quality, bit rate and iframe interval: Main Menu>> Setting>> Encode

【**Channel**】 select channel number

【**Compression**】H.264;

【**Resolution**】D1, HD1, CIF

【**Frame rate**】 PAL:1-25 f/s, 25 levels optional; NTSC:1-30 f/s, 30 levels optional

【**Bit rate**】system supports two types: CBR and VBR

【**Quality**】 There are six levels ranging from 1 to 6. The sixth level has the highest image quality.

【**Bit rate**】: 768kb/s-4096kb/s optional

【**Frame interval**】: can set 1 frame, 2-12 optional.

Copy the same settings to all channels.

5.4.3 Network Setting

You can configure network parameters in this interface: Main Menu>> Setting> >Network

【IP Address】Your DVR supports several methods of being viewed online. No matter which method is used, your DVR must first acquire an IP address, which it does via 2 different methods.

- Automatic acquisition of the IP address by the DHCP client model.

- Manual indication of the IP address by the Static IP model.

Thus, this field offers two options: Static IP and DHCP. Toggling these will either make the three following fields changeable (in manual mode) or not (in auto mode); these fields are: IP Address, Subnet Mask and Gateway.

【Subnet Mask】You can get information about subnet mask. Subnet mask is a system of interconnections within a communications system that allows the components to communicate directly with each other. The default subnet mask is 255.255.255.0.

【Gateway】You can set gateway according to your net segment.

【TCP Port】It is 34567 by default. When you use mobile phone to monitor, you should input this port.

【HTTP Port】It is used to connect to the DVR web server. By default the value of the port is 80. You can specify a different port number.

【UDP Port】It is 37778 by default.

【Max Connection】System supports maximal 10 users. 0 means there is no connection

【Transfer Mode】Set transfer mode: latency, self-adaptive, fluency

【LAN Download】System can process the downloaded data first if you enable this function.

【Advanced Setting】In advanced setting, user can double click any list to set Email, DNS, DDNS, PPPOE, FTP, Online User and so on. There will be introduction of some important functions.

Note: You should enable the relevant function with √ before setup.

【Email】Double click **E-mail Setting** will bring up a dialog window, where you can adjust the necessary settings.

SMTP Server: Input server address and then enable this function.

Port: Default value is 25. You can modify it if necessary.

SSL: Security Socket Layer

User Name: The sender email account user name.

Password: The sender email account password.

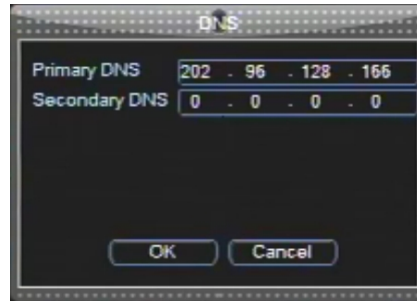
Sender: Sender email address.

Title: Input email subject here.

Receiver: Receiver email address.

Note: *Please fulfill the postfix of the mail address if it is virtual,(e.g. xxxx@yyyy.com) otherwise it is not allowed. (e.g. xxxx)*

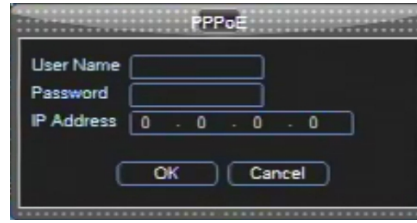
【DNS】Domain Name Server. These values depend on your actual account, please contact your Internet Service Provider for details. User can a primary DNS address and a secondary DNS address.



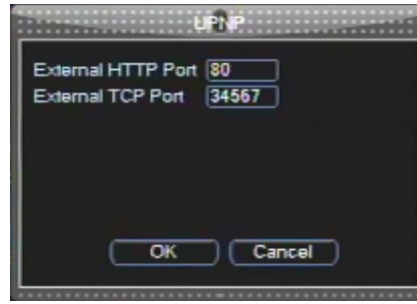
【DDNS】In order to connect your DVR to the internet, you may choose to use the services of a Dynamic DNS service.

Your DVR comes with several DDNS server names built-in. To be able to use these servers, you need to go to the associated website to register for an account. Once registered, you choose the name of the DDNS Server from the list by pressing the arrow buttons located at both ends of the corresponding field and input the DDNS name, user name, password. Afterward, it should automatically connect.

【PPPOE】These values depend on your actual account, please contact your Internet Service Provider for details. In this interface, you should input username and password, then an IP address will appear in this interface.



【UPNP】Set external HTTP Port and TCP Port which mapped in Internet.



5.4.4 Display Setting

You can configure display parameters in this interface: Main Menu>> Setting> >Display

【Channel Name】: Set name for each channel
【Time Display】Show or conceal time on each channel
【Channel Display】Show or conceal channel name.
【Record State】Show or conceal record state.
【Alarm State】Show or conceal alarm state.
【TV Adjust】Move the entire video screen up, down, left and right.
【Transparency】Set transparency for menu display
【Channel】Select channel to set private masking and set position to display time.
【Private Masking】Enable or disable private masking. If private masking was activated, you should select a number to set private masking. You can set four pieces of area covered at most.
【Time Display】Set position for time display.
【Channel Display】Set position for channel name.

5.4.5 Account Setting

You can manage users in this interface: Main Menu>> Setting> >Account

【Modify User】You can modify user's name, memo, group and set permissions.

There are 2 default users: "Admin" "guest". "Admin" users have administrator right. The default password is "888888" for "Admin" and "123456" for "guest". "guest" user only can review Local replay and Net replay, Local preview and Net preview .

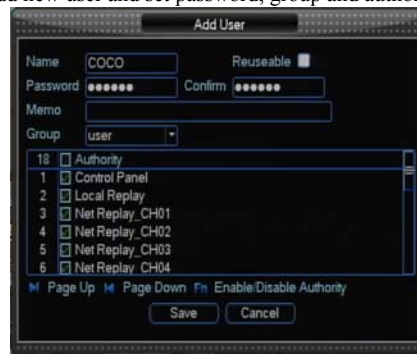
Reusable function: this function allows multiple users use the same account to login. Once select the user to a group, the user authority can not surpass this group authority property.

We recommend that normal user's authority lower than other advanced user.

【Modify Group】In this interface, you can edit name for group, set memo and set permissions for group.

【Modify Password】you can select the name you want to change password and write a new password. Before set new password, you should fill in old right password.

【Add User】You can add new user and set password, group and authority.



【Add Group】You can add new group and set its permission.

【Delete User】Click this button after select a user to delete it.

5.4.6 PTZ Setting

You can configure PTZ parameters in this interface: Main Menu>> Setting>> PTZ Setting

【Channel】Select the camera (channel) number whose settings you want to modify.

【Protocol】Select the PTZ device protocol. It must be consistent with the protocol of the actual PTZ cameras installed. You can make the choice among available options: *Pelco-D, Pelco-P, Panasonic, Samsung, SONY...etc*. The changes will take effect after you save and exit.

【Address】Select the PTZ address. It must be consistent with the address of the actual PTZ cameras installed. Make your choice of any number from 1 to 255. Please note that this is not the same as the number of the channel to which you hook up the PTZ camera in your DVR system.

【Baud rate】Select the PTZ device baud rate. It must be consistent with the baud rate of the actual PTZ cameras installed. You system supports four options: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.

【Data Bits】Options include 5, 6, 7 and 8.The default setting for DATA BIT is 8.

【Stop Bits】Options include 1 and 2. The default setting is 1.

【Parity】Options include None, Odd, Even, Mark and Space. The default setting is none.

Note: When making changes to PTZ camera functionality / settings, make sure that these changes are being made to actual PTZ cameras by selecting the correct number in the previous field (Camera Channel).

5.4.7 RS232

There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to control current device.

【**Baud rate**】You can select proper baud rate.

【**Data bit**】You can select proper data bit.

【**Stop bit**】There are three values: 1/2.

【**Parity**】 there are 4 choices: none/odd/even/blank

【**System default**】 Console, Baud rate is 115200, data bit is 8 digits, stop bit is 1, and Parity is none.

5.4.8 Tour Setting

In this interface, you can enable or disable tour, set views for tour.

【Type】 Select display mode of tour: General and spot

【Split】Set tour split mode

【Enable Tour】Enable or disable tour

【Interval】 This refers to sequencing time

【View mode】Select view mode for tour.

5.5 Advanced Setting

Next menu tab in the Main Menu is **Advanced Setting**. Under this tab user can manage HDD, upgrade system, configure parameters, maintenance system, reset all configurations to factory defaults and shut down system.

5.5.1 HDD Manage

In this interface, you can manage HDD: Main Menu>>Advanced>>HDD Manage

If 2pcs HDD installed, then displayed as 1-2 in HDD. If selecting the first HDD, it displays current type, total capacity, and status. You can modify HDD attribute, read-only disk, read-write disk, redundancy disk or format all the data in the HDD. After all the setups please click OK button, system goes back to the previous menu

Note: You can set proper mode for each hard disk from the dropdown list.

When you use redundant backup function, you can set one or more redundant HDD(s).

Please note you need to set at least one read-write disk, otherwise system will not record video.

5.5.2 USB Upgrade

Connect to the USB port on the rear panel with the USB device, which has upgrade file and then select the file to upgrade.

5.5.3 Configuration

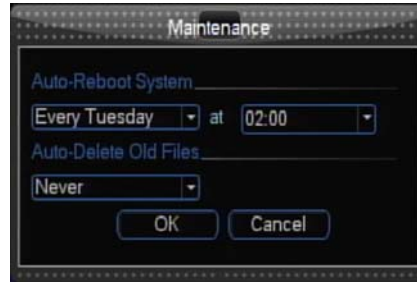
In this interface, you can export parameters to your USB disk or import parameters from your USB disk: Main Menu>>Advanced>>Configuration

Export: Connect to the USB interface on the rear panel with the USB equipment, set the system output into a file named cfg.coi

Import: Connect to the USB interface on the rear panel with the USB equipment, select setting file to input.

5.5.4 Maintenance

In this interface, you can set a time to auto-reboot system and set time to auto-delete old files: Main Menu>>Advanced>>Maintenance.



Here you can set auto-reboot time and auto-delete old files methods.
You can select proper setup from dropdown list.
After all the setups please click save button, system goes back to the previous menu.

5.5.5 Default

In this interface, you can reset some parameter to factory default: Main Menu>>Advanced >> Default.

5.5.6 Shut Down

In this interface, you can logout system, shut down machine, restart system and switch users: Main Menu>>Advanced >> Shut Down

【Logout】: exit menu, you need to provide password again when entering the menu next time.

【Shut down machine】: logout system turns off power

【Restart system】: system begins rebooting.

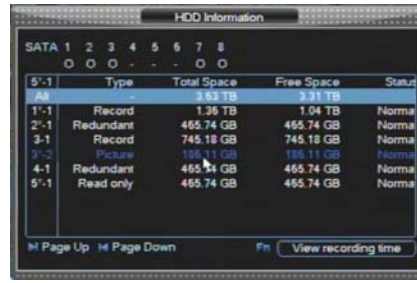
【Switch】: switch users

5.6 Information

Next menu tab in the Main Menu is **Information**. User can get information about HDD information, BPS, Log and Version: Main Menu>>Information.

5.6.1 HDD Information

In this interface, you can get information about HDD: Main menu>>Information >> HDD Information.


HDD Information
SATA 1 2 3 4 5 6 7 8
O O O - - - O O
5'-1 Type Total Space Free Space Status
All - 3.63 TB 3.31 TB
1'-1 Record 1.36 TB 1.04 TB Norma
2'-1 Redundant 465.74 GB 465.74 GB Norma
3-1 Record 745.18 GB 745.18 GB Norma
3'-2 Picture 186.11 GB 186.11 GB Norma
4-1 Redundant 465.74 GB 465.74 GB Norma
5'-1 Read only 465.74 GB 465.74 GB Norma
Page Up Page Down Fn View recording time

Here is to list hard disk type, total space, free space, video start time and status

Note:

Please remove the broken hard disk before you add a new one. Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

If you want to view recording time of some HDD, you can select it, and click "**View Recording Time**" to get time for start recording or end recording.

Note: ○ means current HDD is normal. X means there is error. - means there is no HDD. Please remove the broken hard disk before you add anew one. If disk is damaged, system shows as "?"

After system start, if there is conflict, will jump to HDD information page immediately, user can check the system time and HDD time, If conflict please enter normal setup to modify system time, or enter advanced HDD management to format HDD, then restart device.

5.6.2 BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h)

5.6.3 Log

In this interface, you can search log file: Main Menu>>Information >>Log.

Here is for you to view system log file. System lists the following information.

Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Pleased select start time and end time, then click search button. You can view the log files. Please page up/down button to view if there are more than ten files.

5.6.4 Version

In this interface, you can get information about channels, alarm in, alarm out, system version and release date: Main Menu>>Information >>Version

6. Web Browser Operation

Install the software through the IE browser of OS to operate the network remotely and conveniently. DVR supports C/S, B/S, and access in LAN and WAN. It also supports IP and domain name visiting.

6.1 Software Environment

Hardware

Recommend Hardware requirement

- CPU：Pentium 2.8G or above（Dual core）
- Memory：2G or above
- HDD：7200 SATA 32M 500G or above
- Display： Video card with YUV output，64M video memory
- Ethernet：1000M

Software

- Windows XP
- WindowsVista/winodws7
- DirectX 9.0c (above)

RESTRICTION CONDITION：

To ensure PC‘s stable visiting of DVR, we recommend Windows XP or Win7.

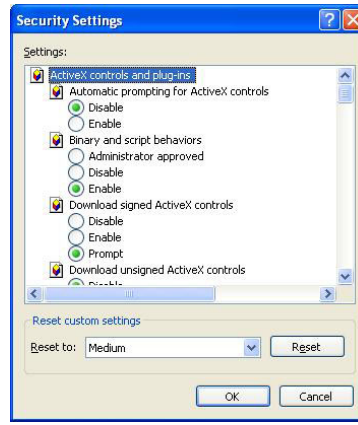
6.2 Network Security Setting

Prior to control installation, please program the network security level by using the following operations:

(1) Open the IE browser and click [Tools→ Internet Options].

(2) Choose the “Security” label in the dialogue box.

(3) Click “Customization level” to enter into the security setting.



Set the ActiveX control and pluggable unit. Select the following options
√ ActiveX control auto-prompting
√ Run the script of the ActiveX control which is marked to be that can safely implement the script.
√ Implement initialization and run the script of the ActiveX control which is not marked to be that can safely implement the script.
√ Binary system and the script behavior
√ Download the unsigned ActiveX control
√ Download the signed ActiveX control
√ Perform the ActiveX control and pluggable unit

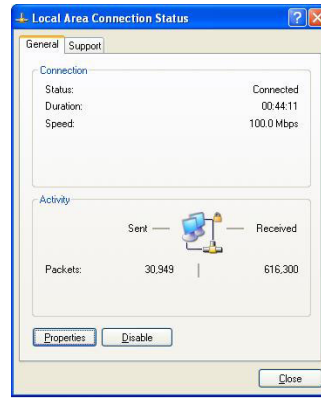
It's extremely importation to "enable" the items above.
Prompt: Before control installation, please turn off the fire wall and the anti-virus software.

6.3 Connection Setting

The remote access for the hard disk recording machine should be carried out through the network. In the local area network connection, the IP address of the client-side computer must be in the same network section with that of the hard disk recording machine. While in the wide area network connection, just ensure that two sides can visit the public network, and connect through the IP address or the dynamic domain name. The following will mainly focus on the connecting and setting method for the local area network.

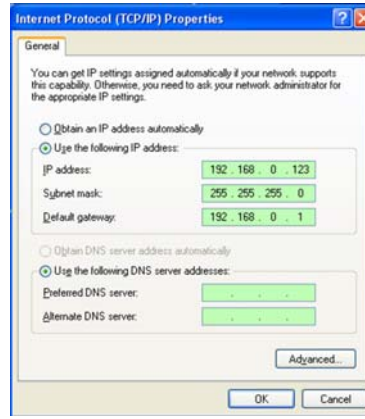
Step 1: Right click on "Network neighborhood" and click "Attribute" in the ejected menu to open the "Network connection".

Step 2: Double click to open "Local connection".



Step 3: Click “Attribute”.

Step 4: Double click “Internet protocol (TCP/IP)”.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 123
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Step 5: Examine the IP address, subnet mask, and default gateway on the PC.

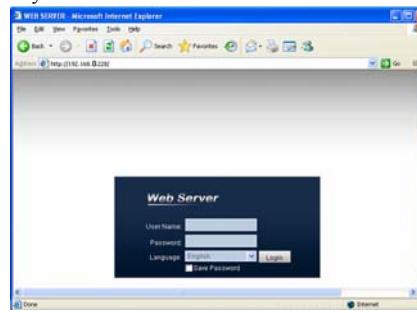
Step 6: Set the corresponding IP address, subnet mask, and default gateway on the DVR (refer to 5.5.5 Network Setup). If the subnet mask and default gateway on DVR are the same with those of the PC, then the IP address must be in the same network section but cannot be the same with the used one. Otherwise, it will cause IP address conflicts. Take the figure above as an example, the IP address should be: 192.168.0.X, wherein, X cannot be 40 or 1 (including other IP addresses currently being used), and cannot surpass 255, the subnet mask is 255.255.255.0, and the gateway is 192.168.0.1.

6.4 Control Download and Installation

After finishing the aforementioned settings, open the IE browser, input http://192.168.0.X (192.168.0.X is the setting IP address of the DVR) and confirm. If the http port of DVR setting has been changed (not 80), it's will be must to add colon + port number (assume that the current port number is P), like http://192.168.0.X:P, for correct visit. Then, the network will download and install the control automatically.

After connecting to the internet, IE will automatically download the file to PC as follows.

The system will automatically enter GUI as follows.



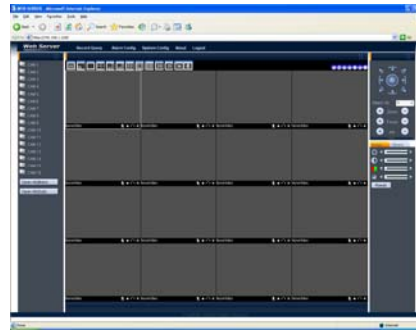
Fill in your username, password and select English to enter the system. The password is the same as the one set in DVR.
USER Name: Input user name. The administrator has all authorities, but common user has been limited authorities by administrator.
PASSWORD: The password is as the same as the password of Device.
Language: Select language.
If you checked the "Save Password" It will save password automatically.
Note: If you connect the device in WAN, the IP should be a public IP.

6.5 Operation Interface

Options in the main interface include LIVE, RECORD QUERY, ALARM CONFIG, SYSTEM CONFIG, ABOUT and LOGOUT. Click any option to access.

6.5.1 Live

After login system success, you can enter interface as following:

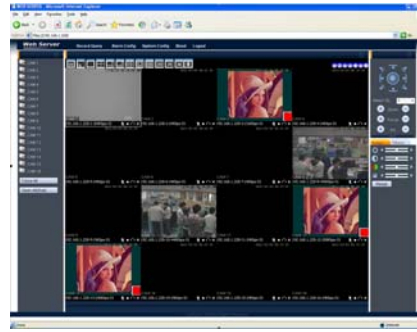


6.5.2 Connect cameras

In the previous fig, users can click mouse on left panel to connect any camera or click “Open All” to connect all the cameras.
Open All (main): In this mode, the images will be clearer and demand higher bandwidth.
Open All (Sub): In this mode, the images will be worse than main stream mode and more fluency.
Users can select above mode according to net condition.

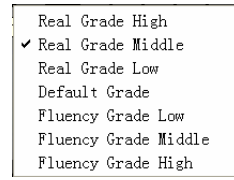
6.5.3 Functions on View

After connecting cameras successfully, you can see interface as following.



Introduction for functions on above panel:

: Click this icon to pull out a menu show as below. You can select a stream level according to your demand.



: Display images in full screen mode.

: Display image in single-screen mode.

: Display image in 4-screen mode.

: Display image in 6-screen mode.

: Display image in 8-screen mode.

: Display image in 9-screen mode.

: Display image in 13-screen mode.

: Display image in 16-screen mode.

: Display image in 20-screen mode.

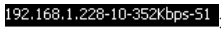
: Display image in 25-screen mode.

: Display image in 36-screen mode.

: Click this icon to start talk back

Introduction of functions on live

There are several icons at the bottom of each channel, you can get detail information below.



: It shows IP address, net bandwidth and camera ID.

: Click this icon to capture picture.

: Click this icon to start record.

: Click this icon to start listen.

: Click this icon to stop view.

Introduction of functions to adjust position

: Click this icon to move image to left hand.

: Click this icon to move image to underside.

: Click this icon to move image to right hand.

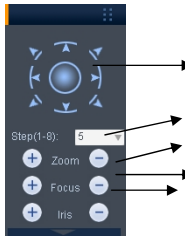
: Click this icon to move image to upside.

: Click this icon to zoom in.

: Click this icon to zoom out.

: Click this icon to restore image.

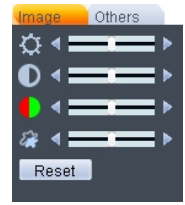
6.5.4 PTZ Control



Control PTZ direction

Set the turning speed of PTZ camera
Zoom: Zoom in or zoom out
Focus: Focus in or focus out.
Iris: Make the image brighter or darker

6.5.5 Image Adjustment

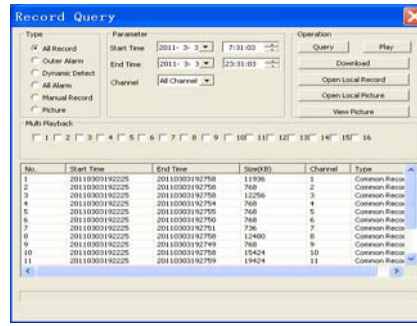


You can set bright, contrast, hue and saturation by dragging the bar in this interface

6.5.6 Others operation

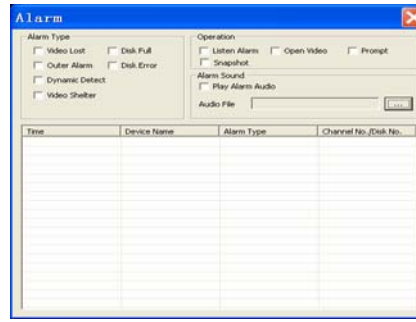
Snapshot Path: Set a path in PC to save capture images.
Record Path: Set a path to save recording files.
Reboot: Click this button to reboot device.
Record Size: Set record size range from 200MB to 1024MB.

6.6 Record Query



Select recorded type, start time, end time, recorded channel, then click “Query” to search file. In the list underside, you can select any recording list and click “Play” to playback files or click “Download” to download file. You can monitor cameras and playback recording files at the same time. You can also playback your local record file and view picture.

6.7 Alarm Config

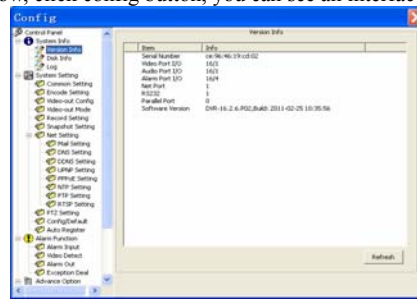


Alarm Type: Select any alarm type depending on your demand.
Operation: Set operation mode when alarm triggered.
Alarm Sound: Set a sound to alarm out when alarm triggered.

6.8 System Config

6.8.1 System Info

In the main window, click config button, you can see an interface is shown as below



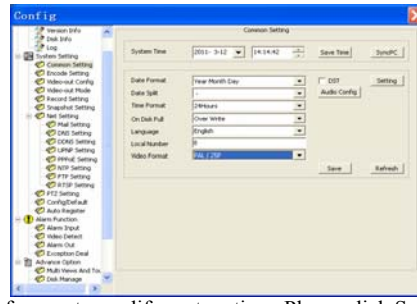
- System Information: Click device configuration button, you can see the following interface, Hardware version, HDD information, Interface, Log inquiry.
- System Setting: Setting includes the following items: General, Encode setup, Schedule, RS232, Network, MUL-DDNS, FTP, Alarm setup, Detect, Pan/Tilt/Zoom, Tool

Advanced: set DVR's record, auto maintenance

6.8.2 System Setting

6.8.2.1 General Setting

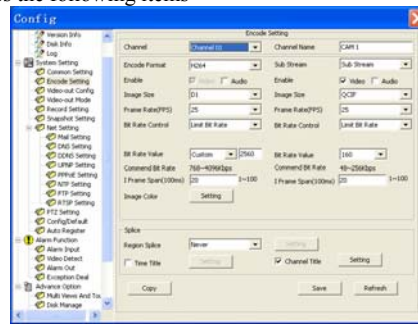
General interface is shown as below.



- System time: Here is for you to modify system time. Please click Save after your modification
- Date format: Here you can select data format from the dropdown list.
- Date separator: Please select separator such as "–", "/"or ". ".
- Time format: there are two options: 24-H and 12-H.
- HDD full: there are two options: stop recording or overwrite the previous files when HDD is full.
- Language: Select system language for DVR.
- Device No.: when you are using one remote control to manage multiple DVRs, you can give these DVRs serial numbers respectively. Click address button in your remote control and then input the correct device number, now you can control the DVR now.
- Video standard: PAL or NTSC. (for your reference only)

6.8.2.2 Encode

Encode setup includes the following items



- Channel: Here is for you to select a channel.
- Encode Format: H.264;
- Data stream: Sub stream;
- AV enable: Video/Audio. System only displays video by default. You need to manually enable audio function
- Image Size: CIF / QCIF
- Differentiating rate: stocking differentiating rate's type is CIF or QCIF;
- Frame rate: The value ranges from 1f/s to 25f/s (PAL) and 1f/s to 30f/s (NTSC)
- Bit rate: There are two options: CBR and VBR. You can only set video quality in VBR mode
- Bit rate number: set bit rate according to web status, 10kb/s-4096kb/s adjustable;

- Frame interval: can set 1 frame, 2-12 optional.
- Image color: brightness, contrast, color, saturation and AGC for selected channel;
- OSD Overlay: time, title overlay.
- Click “copy” as following chart showing:

6.8.2.3 Record Setting

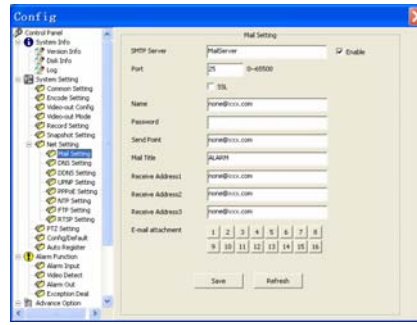
Schedule includes the following interface
When DVR boots up, it is in 24-hour continuous record. In this interface you can set record type, record time and period. Record type includes regular record(R), motion detection record (M) and alarm record (A).

- Channel: select the channel number you desire.
- Week: you can select from the dropdown list. Or you can select at the bottom of the interface.
- Prerecord: system can record the three to five seconds video before activating the record operation into the file.(Depends on data size)
- Period: There are six periods for you to set. Please click set button of the corresponding period. Please note all the setup here shall be in one day. E.g. 00.00 to 24.00.

6.8.3 Net Setting

User can set Email, DNS, DDNS, UPNP, PPPOE, NTP, FTP and RTSP. There are introduction of main function.

6.8.3.1 Main Setting



◆**SMTP Server:** Input server address and then enable this function.

◆**Port:** Default value is 25. You can modify it if necessary.

◆**User Name:** The sender email account user name.

◆**Password:** The sender email account password.

◆**Sender:** Sender email address.

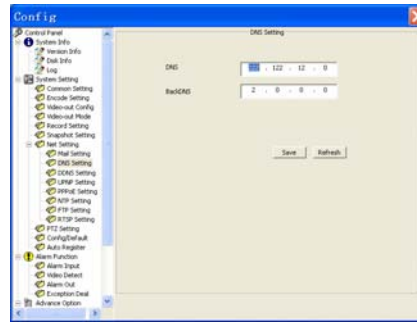
◆**Title:** Input email subject here.

◆**Receiver:** Receiver email address.

Note: Please fulfill the postfix of the mail address if it is virtual,(e.g. xxxx@yyyy.com) otherwise it is not allowed. (e.g. xxxx)

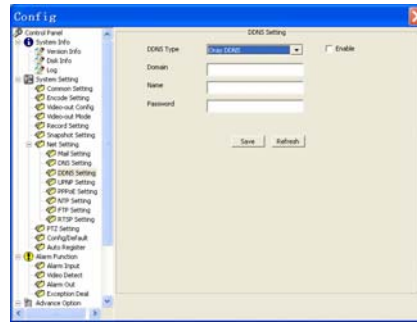
6.8.3.2 DNS Setting

Domain Name Server. These values depend on your actual account, please contact your Internet Service Provider for details. User can a primary DNS address and a secondary DNS address.



6.8.3.3 DDNS Setting

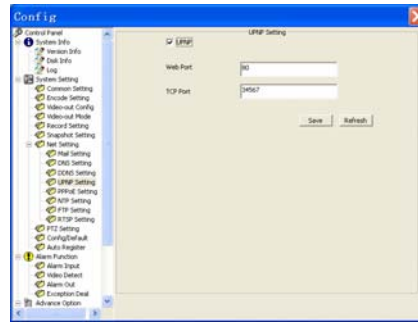
In order to connect your DVR to the internet, you may choose to use the services of a Dynamic DNS service.



Your DVR comes with several DDNS server names built-in. To be able to use these servers, you need to go to the associated website to register for an account. Once registered, you choose the name of the DDNS Server from the list by pressing the arrow buttons located at both ends of the corresponding field and input the DDNS name, user name, password. Afterward, it should automatically connect.

6.8.3.4 UPNP

Set external HTTP Port and TCP Port which mapped in Internet.

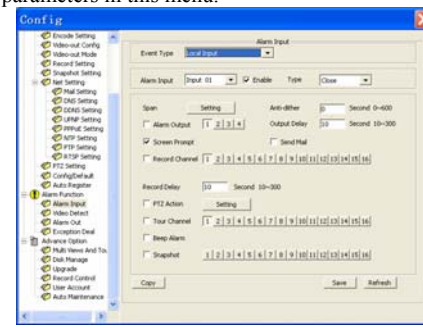


6.8.4 Alarm Setting

User can set alarm input, alarm output, video detect and exception deal. There are introduction of the main functions below.

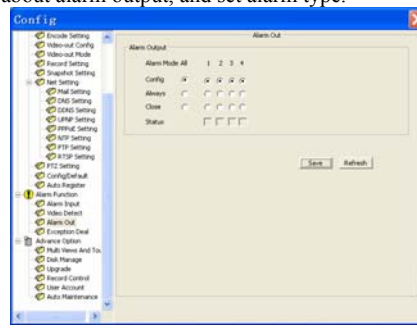
6.8.4.1 Alarm In

User can set alarm input parameters in this menu.



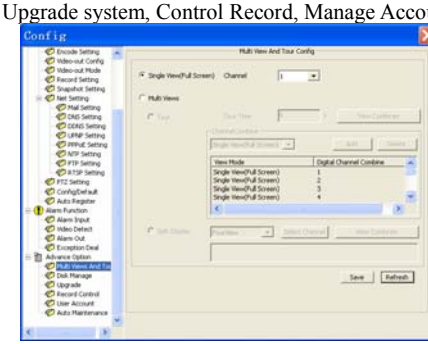
6.8.4.2 Alarm output

User can get information about alarm output, and set alarm type.



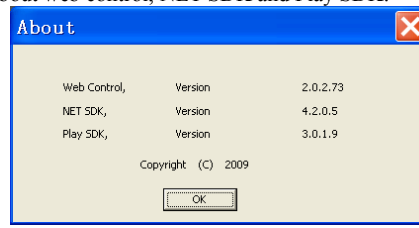
6.8.5 Advanced Option

User can manage HDD, Upgrade system, Control Record, Manage Accounts and Config Tour.



6.9 About

It introduced version about web control, NET SDK and Play SDK.



6.10 Logout

Click “Logout” to log out of system.

7. Mobile Phone Support

A state-of-the-art feature of this DVR device is transmitting live feed from the CCTV cameras to your mobile phone, so that you can have ‘on the go’ access to your surveillance system from virtually anywhere in the world. Currently, there are a limited number of phones that can support this feature: Windows CE Mobile, Symbian S60 3rd Edition OS, Android, Blackberry and Iphone.

7.1 Windows Mobile

Note:

1. **Prior to using this feature, you should apply for the Internet connection service for your mobile phone, such as 3G or 3.5G. Please contact your mobile service provider for details.**
2. **You can only watch one live feed channel at a time with your mobile phone. Split mode and playback of recorded files is not available at the moment.**

From the installation CD, install file “vs500Setup.cab” onto your Windows Mobile phone. See your phone user manual for more details on application install.

Find and execute program VS500 and click the **Setting** button to setup the IP address for your DVR.

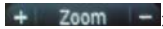
In the ensuing screen, input the user name (default Admin), password, device port(TCP port), and IP address for your DVR (Server).

Input the value for the Port: default 34567 and choose the channel for streaming data from the dropdown menu.

Select a camera to monitor it.

The main window of the Mobile Phone application offers the choice of channels, **Connect** and **Settings** buttons.

: Click or to control PTZ direction upward or downward. If you click on "UP/Down", it will switch to "Left/Down" and you can control direction to left or right.



: Click or to adjust relevant parameter. If you click on "Zoom", it will switch to "Focus" or "Iris"

Login: Click it to enter setting interface.

Camera: Click it to enter camera selecting interface.

Full: Click it to display image in full screen mode.

About: Click it to get information about this software.

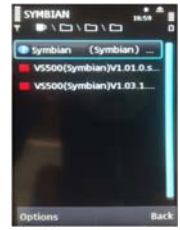
Exit: Click it to exit.

7.2 Symbian Phone

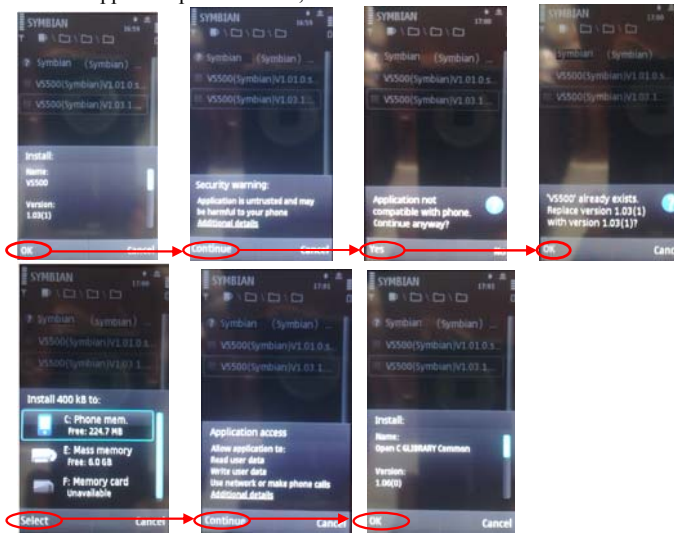
Please see a sample installation process shown below (The N97 will be taken as an example to introduce installation):

（1） Copy “VS500(Symbian)V1.03.1.R.101203.sisx” to your mobile from the installation CD;

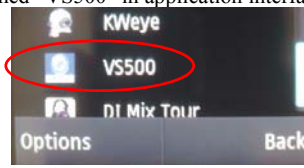
（2） Open file management on your mobile and find “VS500(Symbian)V1.03.1.R.101203.sisx” you have copied;



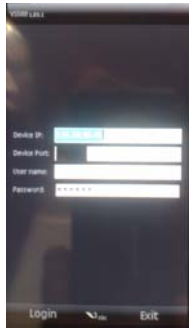
（3） Select “Options” and a dialog will displayed which indicates “Install VS500?” You should choose “Ok” to continue the following steps; after you choose “OK”, a serious of dialogs will appear as picture below, select “continue”



（4） After selecting “Ok” on last picture above, the software will start install. After installation, there will be an icon named “VS500” in application interface.



（5） Select “VS500” to execute VS500 and the program window will appear on the screen.



Device IP: DVR IP address;
Device Port: TCP port (34567 by defaulted)
Username: Login User Name〖Admin〗
Password: Password [888888 by default]

(6) After configuration, select “Login” to login system. A interface will appear as following to select camera you want to monitor. Select a camera then click “Back” to enter live interface.

Up/Down: Click or to control PTZ direction upward or downward. If you click on “UP/Down”, it will switch to “Left/Down” and you can control direction to left hand or right hand.

Zoom: Click or to adjust relevant parameter. If you click on “Zoom”, it will switch to “Focus” or “Iris”

Login: Click it to enter setting interface.

Camera: Click it to enter camera selecting interface.

Full: Click it to display image in full screen mode.

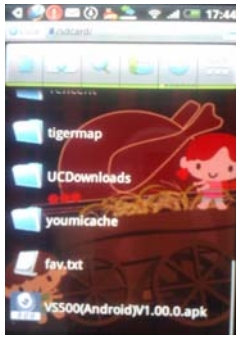
Exit: Click it to exit.

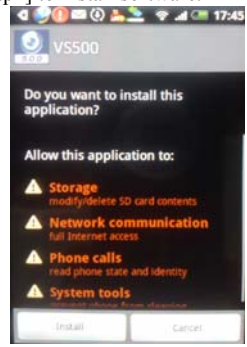
7.3 Android Mobile

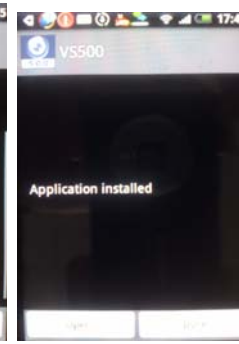
1) Install the program

1 Copy the software “VS500 (Android)V1.00.0.apk” to your Android phone or copy to SD card.

1.2 Open your “ES File Explore” in android phone and find the [VS500(Android)V1.00.0.apk] file in your android phone memory or SD card. Click [VS500(Android)V1.00.0.apk] to install software.





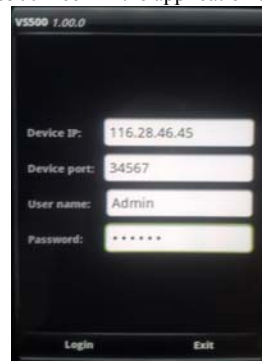


2). Start vs500 software

VS500 provide video surveillance, channel switch, full screen magnify, PTZ control, focus and exit function.

2 System main interface

After the installation, press “VS500” icon in the application to enter login interface.



Device IP: DVR IP address;
Device Port: TCP port (34567 by defaulted)
Username: Login User Name〖Admin〗
Password: Password [888888 by default]

After inputting device IP, device port, username and password, click “Login” to login system.
An interface will appear to select camera you want to monitor, the picture as following.

Up/Down: Click or to control PTZ direction upward or downward. If you click on “UP/Down”, it will switch to “Left/Down” and you can control direction to left hand or right hand.

Zoom: Click or to adjust relevant parameter. If you click on “Zoom”, it will switch to “Focus” or “Iris”

Video: Click it to enter camera selecting interface.

Full: Click it to display image in full screen mode.

About: Click it to get information about this software.

Exit: Click it to exit.

7.4 Blackberry Mobile

1) Program installation

1. Copy the setup software “VS500.alx” and “VS500.cod” to your PC.
2. In order to be able to install applications and themes via BlackBerry Desktop Manager, firstly the PC should install Blackberry Desktop Manager. BlackBerry Desktop Manager will be known as “DM.”; otherwise the phone cannot establish the connection with the PC.
3. Connect your BlackBerry mobile phone to your computer via the USB cable that came with it, or any USB cable that fits. Start the DM.
4. Before the installation, open the BlackBerry Desktop Manager. Shown as the red sign on the following pictures, Fig1 means the phone isn’t connected to the PC, Fig2 means the phone has been connected to the PC.

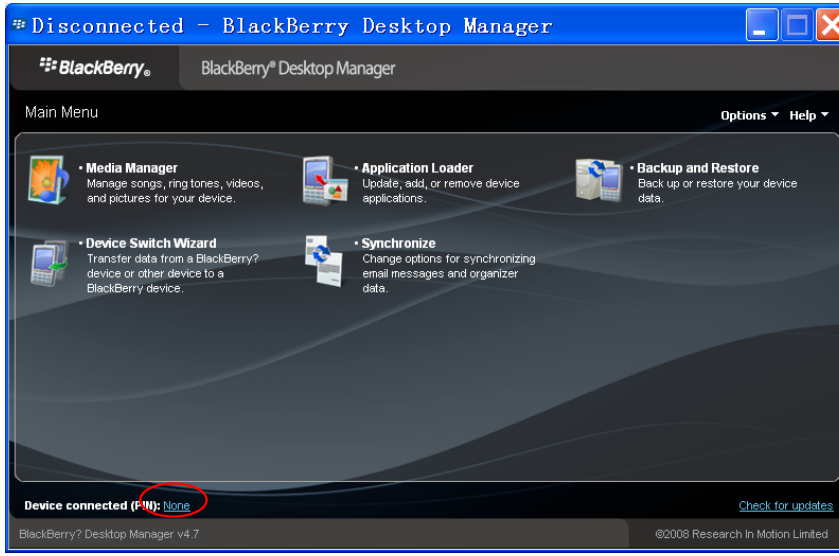

Disconnected - BlackBerry Desktop Manager
BlackBerry
BlackBerry® Desktop Manager
Main Menu
Options
Help
• Media Manager
Manage songs, ring tones, videos, and pictures for your device.
• Application Loader
Update, add, or remove device applications.
• Backup and Restore
Back up or restore your device data.
• Device Switch Wizard
Transfer data from a BlackBerry? device or other device to a BlackBerry device.
• Synchronize
Change options for synchronizing email messages and organizer data.
Device connected (PIN): None
Check for updates
BlackBerry? Desktop Manager v4.7
©2008 Research In Motion Limited

Fig 1

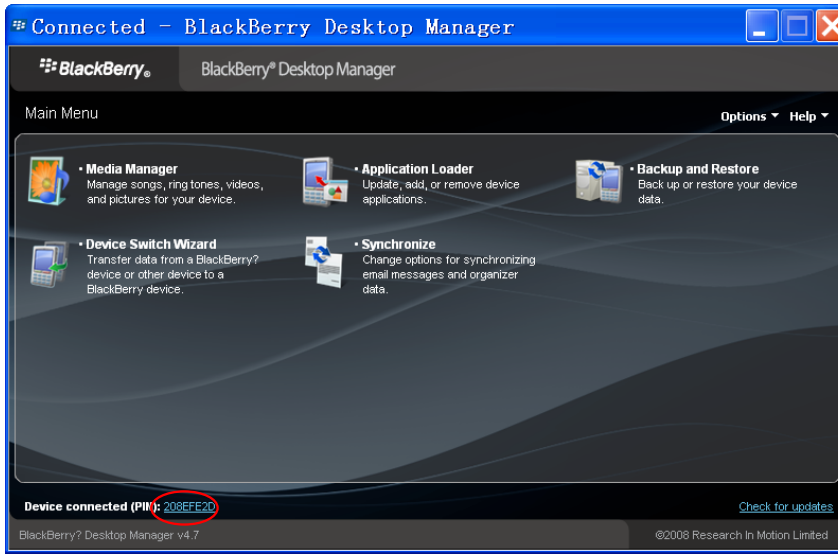
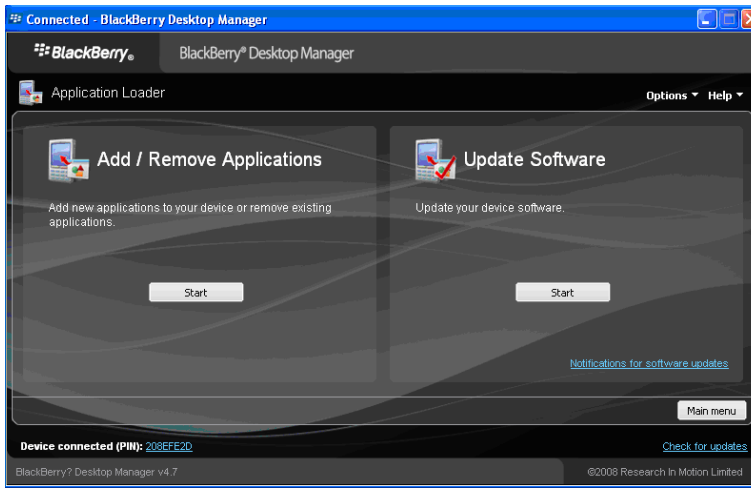
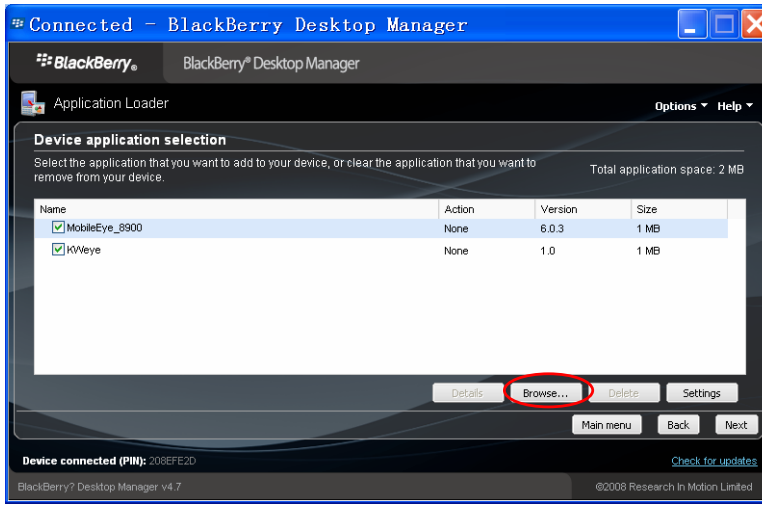

Connected - BlackBerry Desktop Manager
BlackBerry
BlackBerry® Desktop Manager
Main Menu
Options
Help
• Media Manager
Manage songs, ring tones, videos, and pictures for your device.
• Application Loader
Update, add, or remove device applications.
• Backup and Restore
Back up or restore your device data.
• Device Switch Wizard
Transfer data from a BlackBerry? device or other device to a BlackBerry device.
• Synchronize
Change options for synchronizing email messages and organizer data.
Device connected (PIN): 208EFE2D
Check for updates
BlackBerry? Desktop Manager v4.7
©2008 Research In Motion Limited

Fig 2

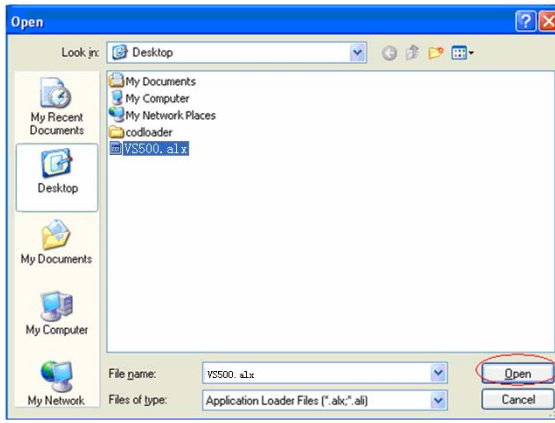
5. Click on "Application Loader" to enter into its interface. In this screen you have two options to select from. Select "Add/Remove Applications" (shown as follows).



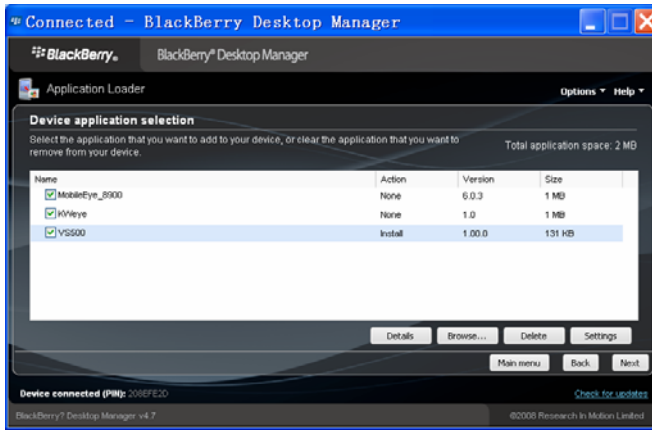
6. You should now see something like what you see below. From this screen, click "Browse" (shown as follows).



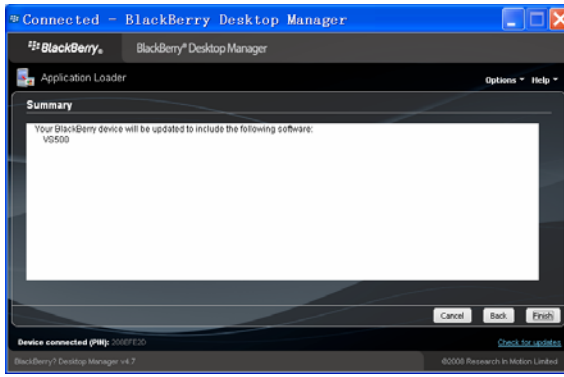
7. Once you click “Browse” you will see a file search screen like the one below. Go to and locate where you saved the application files. Make sure you saved both the “.alx” file and “.cod” file in the same folder. After finding the “VS500.alx” file for the application, highlight it and click “open”.



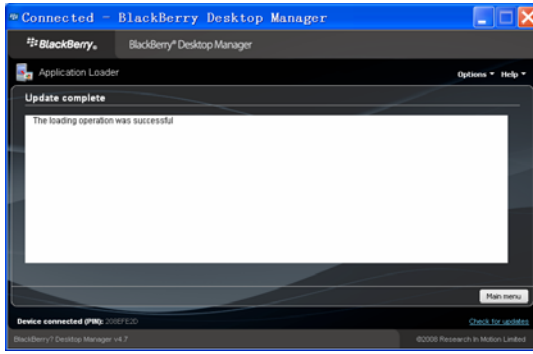
8. You will now return to the Application Loader screen. From here you should see “VS500” now listed with Install under the Action column (shown as follows)



9. Select “VS500” and click “Next” to go to next interface.



10. Click “Finish” to start install software. After installation, an interface will show as folling.

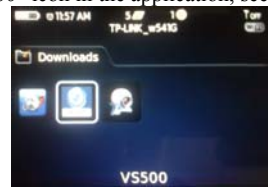


2) System explanations

VS500 phone port has the following capabilities and functions: live video surveillance, channel switch, full screen display, PTZ control, including zoon/focus/iris, image capture, save as favorite and exit function.

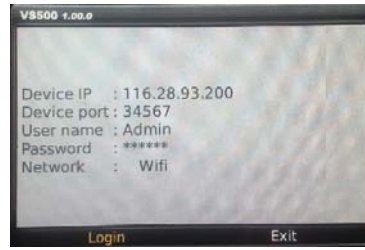
① System main interface

After the installation, press “VS500” icon in the application, see the below picture.



② System login interface

Open the main interface, see the configure interface as bellow. Modify your parameters as necessary.

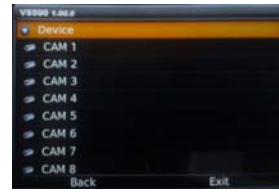


Device IP: DVR IP address
Device Port: TCP Port [34567 by default]
User name: Login User Name〖Admin〗
Password: Password [888888 by default]
Network Type: WIFI or others
Login: Click this button to login live interface;.
Cancel: Click this button to exit system.

③ System Live interface

After setting your configurations, press [Login] to login device list and click [Cancel] button to exit.

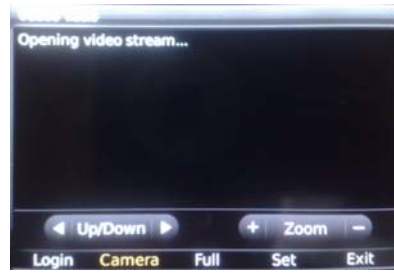
Please refer to the below picture:



Device list: Click this button to show device list and choose the one you want to connect.

④ Connect to DVR

After choose cameras, you will enter live interface.



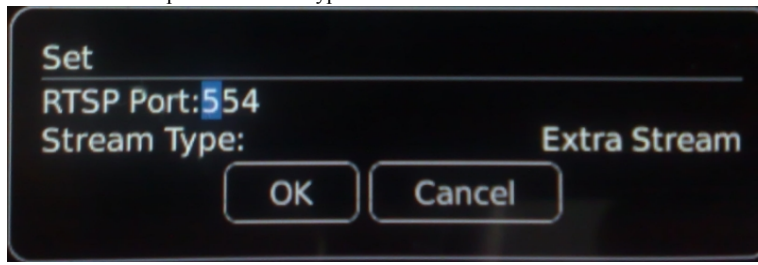
Up/Down: Click or to control PTZ direction upward or downward. If you click on "UP/Down", it will switch to "Left/Down" and you can control direction to left hand or right hand.

Zoom: Click or to adjust relevant parameter. If you click on "Zoom", it will switch to "Focus" or "Iris"

Camera: Click it to enter camera selecting interface.

Full: Click it to display image in full screen mode.

Set: Click it to set RTSP port and stream type.



RTSP: Set RTSP port according DVR.

Stream Type: Select type between extra stream and main stream.

Exit: Click it to exit.

7.5 Apple Iphone

(1). VS500 installation.

Open IPhone App store " " as follows:

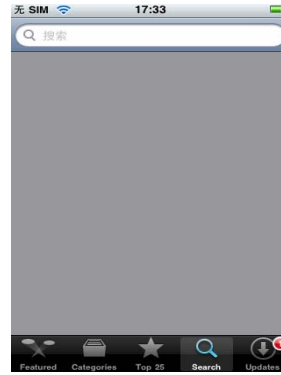


Fig 1

① Click “ ” button and search for “VS500”. It is a free application.

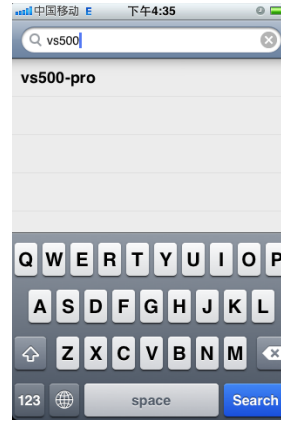


Fig 2

② Click “

” and you will see following screen.

中国移动
下午5:08
Search
Info
vs500-pro
No Ratings
FREE
Watch real-time network cameras from around the world for FREE! Add your own cameras too for watching your home or business or favorite public cam remotely 24-hours a day.
View streaming video in the palm of your hand at the touch of a finger anytime, anywhere! Great for nanny cams, surveillance cameras, baby cams, IP cameras, network cameras, Web cams, spy cams, security cameras, traffic and weather cams, public cameras, etc.
Carrier
5:20 PM
Device (192.168.1.134)
Featured
Categories
Top 25
Search
Updates

Fig 3

③ Click "Free" as shown in Fig 3. It will display the screen shown in Fig 4. Click the "install" button shown in Fig 4 "Install" and it will display the screen shown in Fig 5. Input your Apple account password, then click "OK". The screen will look like the one shown in Fig 6.

中国移动
下午5:08
Search
Info
vs500-pro
No Ratings
INSTALL
Watch real-time network cameras from around the world for FREE! Add your own cameras too for watching your home or business or favorite public cam remotely 24-hours a day.
View streaming video in the palm of your hand at the touch of a finger anytime, anywhere! Great for nanny cams, surveillance cameras, baby cams, IP cameras, network cameras, Web cams, spy cams, security cameras, traffic and weather cams, public cameras, etc.
Carrier
5:20 PM
Device (192.168.1.134)
Featured
Categories
Top 25
Search
Updates

Fig 4

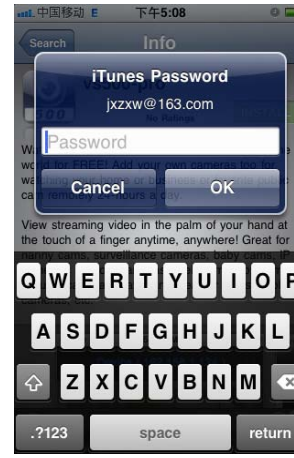


fig 5

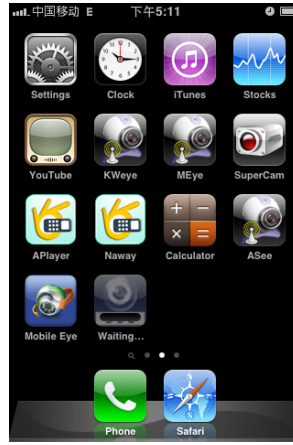


Fig 6

: indicates that the “VS500” software is downloading ……. When the “

” process bar display “ ” status, the VS500 software has finished installing.

After installing “VS500”, the iphone screen will display the screen shown in Fig7.

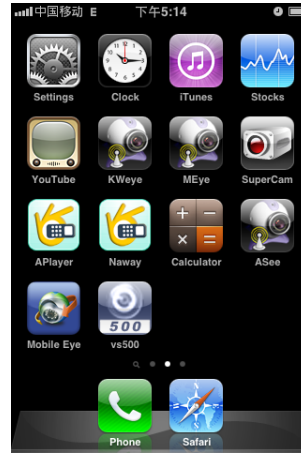
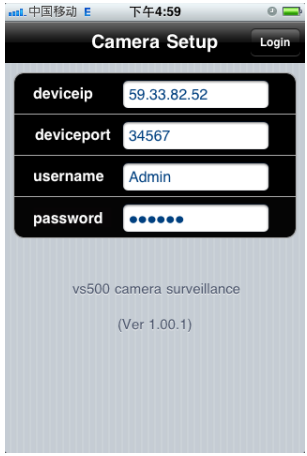


Fig 7

(2). How to use VS 500.

①. Click the “VS 500” icon to open the “VS 500” to set up parameters.

Device IP: DVR IP address
Device Port: TCP Port [34567 by default]
User name: Login User Name〖Admin〗
Password: Password [888888 by default]



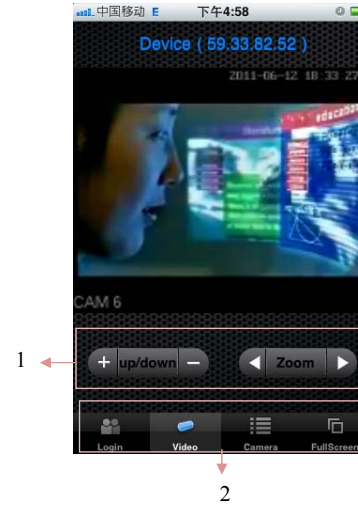


Fig 8 Fig 9

1. PTZ Control: Click +or - to control PTZ direction upward or downward. If you click on "UP/Down", it will switch to "Left/Down" and you can control direction to left hand or right hand. Click or to adjust relevant parameter. If you click on "Zoom", it will switch to "Focus" or "Iris"

2. Login: Click it to set up parameters.
   Camera: Click it to enter camera selecting interface.
   Full Screen: Click it to display image in full screen mode.

Appendix 1 Setting up Internet Connections for Remote Access

This section will explain the ways to connect your DVR to the internet using static and dynamic IP addresses. To connect to the internet, you will need to use a modem and a router.

As a network device, your DVR should have its own address called an Internet Protocol (IP) address. This address can be used by other network devices (ie. computers) to access the DVR to remotely monitor the CCTV cameras and change settings. You can get a static IP address from your internet service provider – this way you will always have the same address at all times, though this

method is rather expensive. If you have a static IP, enter your static IP in the DVR settings and the router will connect your DVR to the internet.

You may alternatively choose to use dynamic IP, which means that the IP address of your DVR may frequently change, but it will still be possible to find your DVR from remote computers, by using DDNS (Dynamic Domain Name System) which dynamically assigns IP addresses to the DVR. This functionality allows the DVR to automatically update its IP address to the DDNS Server each time its Dynamic IP address changes. Your DVR is equipped with the DDNS functionality and has a list of related domain names through which you can acquire an IP address. (See **Section 5.4.3** for details.)

Setup an account with a DDNS service provider and with the account information available, login to the router and go to the DDNS page. Select the address of your service provider and type in the account password. After saving, the router will send IP updates to your DDNS account and the connection will always be forwarded to you current IP.

Appendix 2 Compatibility Table for HDDs

Please find below the list of tested Hard Disk Drives, found to be compatible with the DVR. If you want to use a HDD not found in this list, please test it for compatibility before use.

Brand name	Model Number	Size (GB)	Drive
Seagate	ST3250318AS	250G	SATA
Seagate	ST3320410SV	320GB	SATA
Seagate	ST3320613AS S7200.11	320G	SATA
Seagate	ST3500413AS S7200.12	500GB	SATA
Seagate	ST3500418AS S7200.12	500G	SATA
Seagate	ST3500320AS SV35.3	500G	SATA
Seagate	ST31000340AS S7200.11	1000G	SATA
Seagate	ST31000333AS	1T	SATA
Seagate	ST31000528AS	1T	SATA
Seagate	ST31500341AS S7200.11	1.5T	SATA
Seagate	ST32000542AS	2T	SATA
WD	WD3200AVJS	320GB	SATA
WD	WD5000AAKX	500GB	SATA
WD	WD10EACS-OOD6B0	1.0TB	SATA
WD	Caviar green-WD20EARS	2T	SATA
Samsung	HD103SI	1T	SATA
Hitachi	HDP725050GLA360	500GB	SATA

Appendix 3 List of Compatible Portable USB DVD Recorders

Please find below the list of tested portable USB DVD recorders found to be compatible with the DVR. If for backing up your data from the DVR, you wish to use a DVD recorder not found on this list, please test it for compatibility.

- Pioneer DVR-XD09C

Appendix 4 List of Compatible Portable SATA DVD Recorders(Only for 8CH and 16CH)

Please find below the list of tested portable SATA DVD recorders found to be compatible with the DVR. If for backing up your data from the DVR, you wish to use a DVD recorder not found on this list, please test it for compatibility.

●LG GH22NS50

●SONY AD-7260S

●SAMSUNG TS-H663

●LITEON IHAS324-25Y

Statement

◎If there is any doubt or disputability in manual, you can call on our company and take its plain as authority;

◎This manual provide reference for seviral types machine and you can contact with our customer service department if you have any difficulty;

◎There maybe some different description with real device as our products are upgrading all along. Please forgive us for not informing latest updating.